

**2014 CENTENNIAL POOL REHABILITATION
BID SPECIFICATION
IFB0643-092914**

1. INVITATION TO BID

Bids are being solicited for a Swimming Pool Rehabilitation Project at Centennial Pool. The pool is located at Sargents Avenue in Nashua, NH. This bid is for resurfacing and other rehabilitation work. The project consists of installation of new stairs and ramp, coping repairs, and the purchase of a pool cover.

2. GENERAL CONDITIONS

- The Superintendent of Parks and Recreation shall be the successful bidder's direct contract and periodic conferences will be held with the department head to review the status of work progress at the site. Written status reports may also be required.
- The successful bidder shall employ only honest and responsible employees, skilled in the tasks assigned to them. The successful bidder shall be responsible for all conduct of his employees.
- The Superintendent of Parks and Recreation may require the successful bidder to dismiss from the worksite such employee or employees as he deems incompetent, careless, insubordinate or otherwise objectionable.
- The successful bidder shall be fully and directly responsible for any and all damage to buildings and their contents due to theft attributable, directly or indirectly, in whole or in part, to its employees and/or as a result of doors and/or windows left unlocked by successful bidder's personnel.
- All work shall be completed in a thoroughly professional and workmanlike manner in strict accordance with the Contract Documents.
- The successful bidder shall confine his activities to those areas necessary to complete the work and shall take all necessary steps to avoid damage to adjacent surfaces. Any areas that are damaged during the course of the work shall be repaired or replaced to the satisfaction of the City at no additional cost.
- All work shall be started and completed between April 7, 2015 and June 12, 2015.

A. LOCATION AND DESCRIPTION

Work is to be performed at the Centennial Community Pool, Sargents Avenue, Nashua, New Hampshire in accordance with the technical specifications. Prospective bidders are advised that the City of Nashua expects strict adherence with the specifications and the highest standard of cleanliness. Less than satisfactory performance will not be tolerated.

B. BASIS OF AWARD

In determining the successful bidder, the City may consider, in addition to price, the quality of work, the availability of the bidder, the experience of the bidder, the sufficiency of the financial resources of the bidder and the reputation of the bidder for ability, integrity, judgment and performance, as well as the ability of the bidder to provide additional maintenance and service. The award may be made to a bidder other than the bidder submitting the lowest bid. The City also reserves the right to reject the bid of any bidder who has previously failed to perform properly, or to complete projects on time, contracts of a similar nature; who is not in a position to perform the contract; or who has habitually, and without just cause, neglected the payment of bills or otherwise disregarded his obligations to successful bidders, material suppliers or employees. In determining the successful bidder, the following elements, in addition to these abovementioned, will be considered.

C. REFERENCES

The Bidder must provide a minimum of three references that are to be included with the bid prior to the bid opening time on the required form. Any bids not containing said information will be considered incomplete. (See Page 10 of this document)

D. CONTRACT DURATION

Performance of all work under the technical specifications shall be completed between **April 7, 2015 and June 12, 2015.**

E. LIQUIDATED DAMAGES

Provisions for liquidated damages are set forth in Article 10 of the General Terms and Conditions of the Agreement. (IFB0643-092914 SAMPLE CONTRACT)

F. COORDINATION WITH OTHERS

During the progress of the work, the City, or others may be engaged in performing work within the facility.

G. OBLIGATIONS OF THE SUCCESSFUL BIDDER

The successful bidder shall, at his own expense, provide all manner of supervision, labor, materials, apparatus, scaffolding, appliances, tools, machinery, transportation, and whatever else may be required of every description necessary to do and complete the work, and shall be solely answerable for the same and for the safe, proper, and lawful construction, maintenance, and use thereof. The successful bidder shall employ only competent workers and shall provide experienced supervisors.

H. PERMITS, LAWS, CODES, AND ORDINANCES

The successful bidder shall keep himself fully informed of all existing and current codes, ordinances, and regulations and Municipal, County, State, or National laws in any way limiting or controlling the actions or operations of those engaged in the services bid on or affecting the materials supplied to or by them.

I. WATER SUPPLY AND ELECTRICAL ENERGY

The successful bidder may use the City facility to obtain the electrical energy and water supply necessary for performing work.

3. CENTENNIAL COMMUNITY POOL TECHNICAL SPECIFICATIONS

Task 1 - Specification Custom SS ADA Compliant Entry Ramp 3' W x 36' L
Furnished & Installed

Installation of ADA Compliant Zero Depth entry Ramp and entry steps made from stainless steel. The ramp as well as the entry steps will be welded to the existing pool shell to ensure structural strength.

Sloped entries must comply with ADAAG accessible route provisions (36" min width, maximum 1:12 or 8.33% slope), the surface does not need to be slip resistant since it is being covered.

Task 2 - Specifications Repair and reinstall coping

Prepping the pool by removing all of the pool coping and mortar bed as needed.

Install all New Safety Grip Coping using an epoxy mortar specifically designed to adhere concrete coping on a steel wall pool.

Task 3 - Specifications Prepare and resurface pool

Option A) Pad and vinyl liner method

Centennial Park Pool / Outdoor Steel Gutter Pool Nashua, NH

INSTALLATION OF THE PVC MEMBRANE

Install new 60 mil PVC Membrane System to the pool, pool steps, ramp, gutter, and coping. Pool steps, ramp, and coping will have safety grip material.

Specifications

- Prepping the pool by removing all of the pool coping and mortar bed as needed.
- Install all New Safety Grip Coping using an epoxy mortar specifically designed to adhere concrete coping on a steel wall pool.
- Broom clean pool surface and void it of all loose debris and paint as needed.
- Coat interior of pool with sanitizing agent. Apply Felt adhesive as required.
- Apply Felt 11 (150 mil) to isolate membrane from the pool.
- Install the 60 mil PVC membrane through hot air welding throughout.
- **PVC Pool Membrane** to cover interior of pool shell and gutter trough. Termination points to be at top outside perimeter of vertical gutter walls
- **Coping Wrap** will be attached at top of gutter wall and will extend over coping stones and terminate into existing deck level caulk joint, 12" outside gutter perimeter.
- Cut out for all main drains, inlets, drop-outs, and lights. All penetrations will be terminated with custom fabricated pvc compression flanges.
- Complete additional perimeter caulking, detail work, and finish work to make a complete watertight installation.
- Install: Depth Markers and Pool Safety Markings onto surface membrane to match existing, if applicable.
- Clean site suitable for pool filling and perform final inspection.
- PVC Pool Membrane and all welds shall carry a minimum **10 year limited warranty**.
- Concrete Pool coping carry a minimum **5 year limited warranty**.
- Other installation items shall carry a minimum **1 year limited warranty**.

REQUIREMENTS FOR PVC SWIMMING POOL MEMBRANE LINING SYSTEM

The primary pool lining membrane shall be a flexible 60 mil single ply PVC material UV stabilized, and reinforced with internal polyester webbing. The material shall be formulated using anti-fungal agents and manufactured specifically for use in the commercial pool environment.

Racing lanes, targets and marking strips shall be material in a 40 mil thickness and colored black (used only where specifically quoted elsewhere in proposal).

Geotextile fabric underlayment of 100% polyester is approximately 150 mils thick to isolate and separate material from the pool wall and floor.

PVC coated steel or comparable material as required to make for a satisfactory installation. Sanitizing agents to be sprayed or rolled on under the Geotextile or equivalent, fabric to discourage microbial growth under the membrane.

Adhesives as required to attach the Geotextile or equivalent, fabric to the pool.

Flanges of ¼" Hard White PVC custom fabricated as required for use at all membrane penetrations where required.

The PVC material and welds shall be warranted against leakage for a minimum period of ten (10) years. Caulking and non-PVC welding installation services shall be warranted for one (1) year.

The above system installation shall include: sanitizing, adhesive felt 11, 60 mil reinforced membrane,(or comparable materials) and all compression flanges, hardware installation and incidental equipment to make for a satisfactory installation.

TYPICAL MATERIAL PROPERTIES PVC SWIMMING POOL MEMBRANE LINING SYSTEM

Description: Polyester reinforced PVC membrane Pool Renovation Membrane System.

Available in three easy to clean textures. 10-year warranty.

Compound: PVC compounded for the pool environment.

Compounded with UV inhibitors and anti-fungal agents.

Reinforcement: Non wicking Polyester scrim fabric 1000 D yarn 9X9 per inch count.

Ref: #10233 S06760 60mil Pool Membrane.

Property	Test Method	Result
Thickness	N/A	60 mil
Break Strength		
@Yield (lbs in) MD	ASTM D638	181.0
@Break (lbs in) TD	ASTM D639	161.0
@Yield (lbs in) MD	ASTM D751	117.0
@Break (lbs in) TD	ASTM D752	85.0
Tear Resistance (lbs) MD	ASTMD1004	25.0
Tear Resistance (lbs) TD	ASTMD1005	26.7
Cold Flex Resistance	ASTM D 2136	Pass -50
Dim Stability MD	ASTM D1004 (1 hr 100 Deg. C)	-0.60%
Dim Stability %TD	ASTM D1004 (1 hr 100 Deg. C)	0.20%
Specific Gravity	ASTM D 752	1.235
Water Resistance - % Wt. Change	ASTM D570	0.50%
Puncture Resistance (lbs)	ASTM D4833	123
Delam. Resistance MD (lbs/in)	ASTM D4834	12
UV Resistance (% retained after exposure)	ASTM D 43255	90

REQUIREMENTS FOR PVC POOL COPING MEMBRANE SYSTEM

1. MANUFACTURERS

- a. Requirements are based on DecTec products by Skyline Building Systems (USA), Inc.
- b. Substitutions: TBD

2. MATERIAL

- a. Waterproofing Membrane:
 - i. Description: Plasticized polyvinyl chloride (PVC), solid backed sheet with embedded non-woven fiberglass reinforcing, ultraviolet stabilized, antimicrobial treated
 - ii. Size: 0.060 inch thick x maximum sheet size permitted by application and job conditions.
 - iii. Fire rating: Class C on combustible deck; tested to UL 790.
 - iv. Recycled content: Minimum percent, classified as post-industrial.
 - v. Product: DecTec Guardian or Equivalent .
 - vi. Color: [Brick.] [Bronze.] [Granite.] [Opal.] [To be selected from manufacturer's full color range.]
 - vii. Minimum 10-year warranty.

Option B) Epoxy Membrane Coating Installation

This is an option to install Pool Epoxy Coating, to the pool surface, stairs, ramp, and coping in the existing pool employing the following components and services:

INSTALLATION OF EPOXY COATING THROUGHOUT

- Prepping the pool by removing all of the pool coping and mortar bed as needed.
- Sandblasting all Paint off interior of pool surface.
- Install all New Safety Grip Coping using an epoxy mortar specifically designed to adhere concrete coping on a steel wall pool.
- Install a heated Epoxy Waterproof Membrane Coating throughout the entire pool including the gutter that is specifically designed for steel pool applications.
- Install proper Safety Markings on pool such as Pool Depths and International No Diving Symbols
- Offset colored lines on Entry step edges and benches (if applicable) per code
- Offset colored lines to designate break line to deep end of pool per code.
- Clean site suitable for pool filling and perform final inspection.
- Pool Epoxy Coating shall carry a **10 year limited warranty**.
- Concrete Pool Coping carry a **5 year limited warranty**.
- Other installation items shall carry a **1 year limited warranty**.

Option C) Frost Proof Tile Installation

This is an option to install Pool Tile, to the pool surface, stairs, ramp and coping in the existing pool employing the following components and services:

INSTALLATION OF THE FROST PROOF TILE

- Prepping the pool by removing all of the pool coping and mortar bed as needed.
- Sandblasting all Paint off interior of pool surface.
- Install all New Safety Grip Coping using an epoxy mortar specifically designed to adhere concrete coping on a steel wall pool.
- Install 1" x 1" Frost Proof Pool tile throughout the entire pool including the gutter, using an epoxy thin set specifically designed for steel pool applications.
- Install proper Safety Markings on pool such as Pool Depths and International No Diving Symbols
- Offset colored tile trim on Entry step edges and benches (if applicable) per code
- Offset colored tile lines to designate break line to deep end of pool per code.
- Entry Ramp and Entry Steps to have a Non-Slip tile installed for safety.
- All tile to be grouted with epoxy grout designed to be in a submerged application for a swimming pool.
- Clean site suitable for pool filling and perform final inspection.
- Pool Tile shall carry a **10 year limited warranty**.
- Concrete Pool Coping carry a **5 year limited warranty**.
- Other installation items shall carry a **1 year limited warranty**.

Pool Tile Furnished & Installed City Choice of "Stock" Colors

Task 4 - Specifications Winter Pool Cover and Installation Hardware

GENERAL:

- The following base bid is for commercial pool cover and all related hardware.
- Supply and install a commercial brand winter pool cover with standard commercial applications added to the cover. An example would be Loop- Loc Brand.
- Provide A B measurements throughout the pool cover perimeter for accuracy in finished product.
- The strapping will have a minimum spacing of three feet by three feet.
- Heavy duty steel springs will be at the end of each strap
- Brass Anchors professionally installed into the concrete deck
- Full cuts outs provided for ladder rails and step rails as well as the fill spout for the pool.
- Minimum 18 inch overlaps over the winter cover throughout the pool perimeter

- Green colored heavy dense mesh throughout the cover.
- Provide Care and Maintenance Guide
- Provide a service and care session of approximately one hour with the owners

MATERIAL PROPERTIES

Description:

- Polypropylene-extruded monofilament yard or equal.
- Burst strength 650 psi
- 525 / 595 infill count per inch or equal.
- 80% Black 20% green yarn

Webbing:

- 1" wide Polypropylene polyester with nylon filler.
- Minimum break strength 2000 pounds single used double thick to provide a break strength of 4,200 pounds.
- Minimum 90% black yarn (cotton, wool, and other natural fibers are not allowed)

Chafing Strips:

- Under cover 1 inch minimum width, 20 to 36 inches long, extruded solid virgin polypropylene 3/16 inch thick.
- All inside corners to be heavily padded.

Edge Gap Guard:

- Solid virgin polypropylene 5 to 6 inch extrusion for raised walls.
- 15 inch extrusion for raised steps as needed to meet or exceed ASTM Safety Standard F-1346.91.

Thread:

- Dacron polyester Veemo-UVR Size 138 with three rows of stitching in all directions or equal.

Springs:

- 302/304 stainless steel two draw bar compression type with vinyl tubular deck protective covers or equal.
- Springs to have a minimum break strength of 3,200 pounds.

Anchors:

- Brass flush mounted into the deck with a screw type insert.
- 4,000 pound minimum break strength at neck.

Finished cover:

- To have sections approximately 3 feet by 3 feet.
- All Straps to be X- tacked at cover edge with stainless steel buckles and aluminum tips.

Warranty:

- Please describe your warranty.

GENERAL COMMENTS:

1. Centennial Pools surface area total is approximately 8,200 square feet. Drawings of the pool with dimensions are included.
2. Firm must provide Care and Maintenance Guide for all items.
3. Firm provides copy of the supplier's material warranty. Warranty should completely cover the material against leakage, delaminating, bubbling, pitting, shearing, tearing, cracking or crazing or any material workmanship or defects. The warranty must include the above plus include a warranty on all PVC welding including targets, racing lanes and markings. In the event of failure of the lining system, the bidder shall repair or replace the damaged section.
4. The flexible PVC membrane system shall be warranted by the supplier for workmanship, materials, and shall be specifically warranted to not delaminate, pit, crack, require additional sealing, tear, or become structurally unsuitable for its intended purpose. Additionally, the contractor shall warrant against delaminating at all heat welds at seams and racing lanes. In the event the material should become unusable, the manufacturer and installer agree to repair or replace the defective sections.
5. Provide a service and care session of approximately one hour with the owners.
6. Provide patch kit, care instructions in a written format, plus 100 square feet of color matched patch material, coating, or tile.

Note 1: Submit Warranty Details.

Note 2: City is to provide for trash disposal.

PRICING SUMMARY SHEET
IFB0643-092914
CENTENNIAL POOL REHABILITATION

PRICING

The price for the above scope of work is:

Task 1) Install stairs and ramp. \$ _____

Task 2) Repair Coping \$ _____

Task 3) Options to prepare and resurface pool;

a) Pad and PVC liner method \$ _____

b) Epoxy coat surface method \$ _____

c) Frost proof tile method \$ _____

Task 4) Provide winter pool liner. \$ _____

Total Tasks 1-4 \$ _____

Vendor Name: _____

Vendor Address: _____

Vendor email: _____ phone: _____ fax: _____

Authorized signature: _____

Typed name: _____

STATEMENT OF REFERENCES

Provide at least three (3) references:

1. FIRM NAME: _____
ADDRESS: _____
CITY, STATE: _____
TELEPHONE: _____
RESPONSIBLE COMPANY AGENT NAME: _____
TOTAL SQUARE FEET: _____
TYPE OF OPERATION (Bank, School, Industrial, Etc.): _____

2. FIRM NAME: _____
ADDRESS: _____
CITY, STATE: _____
TELEPHONE: _____
RESPONSIBLE COMPANY AGENT NAME: _____
TOTAL SQUARE FEET: _____
TYPE OF OPERATION (Bank, School, Industrial, Etc.): _____

3. FIRM NAME: _____
ADDRESS: _____
CITY, STATE: _____
TELEPHONE: _____
RESPONSIBLE COMPANY AGENT NAME: _____
TOTAL SQUARE FEET: _____
TYPE OF OPERATION (Bank, School, Industrial, Etc.): _____